SEQUENCE LISTING

<110> DAI, KEN-SHWO

<120> HUMAN SACH-RELATED GENE VARIANTS ASSOCIATED WITH CANCERS

<130> U 014797-5

<140> 10/653,680
<141> 2003-09-02

<160> 6

<170> PatentIn version 3.2

<210> 1
<211> 1960
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<213> ARTIFICIAL SEQUENCE

<220>
<223> A Variant of a human SACH gene

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<221> CDS
<222> (345)..(761)

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agccacggct ggagagaccg agacccggcg caagagagcg cagccttagt aggagaggaa 180

cgcgagacgc ggcagcgcag agcgcgcagc agcagcagca gcagcagcag cagcagcagc 240

aggcgccgca gctgagaccg gcggccgacg gccagccctc agggggcggt cacaagtcag 300

cgcccaagca agtcaagcga cagcgctcgt cttcgcccga actg atg cgc tgc aaa 356
Met Arg Cys Lys
1

cgc cgg ctc aac ttc agc ggc ttt ggc tac agc ctg ccg cag cag cag 404
Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu Pro Gln Gln Gln
5 10 15 20

ccg gcc gcc gtg gcg cgc cgc aac gag cgc gag cgc aac cgc gtc aag 452
Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg Asn Arg Val Lys
25 30 35

ttg gtc aac ctg ggc ttt gcc acc ctt cgg gag cac gtc ccc aac ggc 500
Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His Val Pro Asn Gly
40 45 50

gcg gcc aac aag aag atg agt aag gtg gag aca ctg cgc tcg gcg gtc 548
Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu Arg Ser Ala Val
55 60 65

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gag tac atc cgc gcg ctg cag cag ctg ctg gac gag cat gac gcg gtg      596
Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu His Asp Ala Val
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agc gcc gcc ttc cag gca ggc gtc ctg tcg ccc acc atc tcc ccc aac      644
Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr Ile Ser Pro Asn
85                  90                  95                  100

tac tcc aac gac ttg aac tcc atg gcc ggc tcg ccg gtc tca tcc tac      692
Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro Val Ser Ser Tyr
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tcg tcg gac gag ggc tct tac gac ccg ctc agc ccc gag gag cag gag      740
Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro Glu Glu Gln Glu
            120                 125                 130

ctt ctc gac ttc acc aac tgg ttctgagggg ctcggcctgg tcaggccctg         791
Leu Leu Asp Phe Thr Asn Trp
        135

gtgcgaatgg actttggaag cagggtgatc gcacaacctg catctttagt gctttcttgt    851

cagtggcgtt gggaggggga gaaaaggaaa agaaaaaaaa agaagaagaa gaagaaaaga    911

gaagaagaaa aaaacgaaaa cagtcaacca accccatcgc caactaagcg aggcatgcct    971

gagagacatg gctttcagaa aacgggaagc gctcagaaca gtatctttgc actccaatca   1031

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cagccagttg gttttgatag gttgcctttt ggagatttct attactgcct ttttttcttt   1871

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<213> ARTIFICIAL SEQUENCE

<220>
<223> A peptide encoded by a variant of a human SACH gene

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20 25 30

Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His
35 40 45

Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
50 55 60

Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
65 70 75 80

His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
85 90 95

Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
100 105 110

Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro
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Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp
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<222> (550)..(795)

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agccacggct ggagagaccg agacccggcg caagagagcg cagccttagt aggagaggaa 180

cgcgagacgc ggcagagcgc gttcagcact gacttttgct gctgcttctg ctttttttt 240

tcttagaaac aagaaggcgc cagcggcagc ctcacacgcg agcgccacgc gaggctcccg 300

aagccaaccc gcgaagggag gaggggaggg aggaggaggc ggcgtgcagg gaggagaaaa 360

agcattttca ctttttttgc tcccactcta agaagtctcc cggggatttt gtatatattt 420

tttaacttcc gtcagggctc ccgcttcata tttccttttc tttccctctc tgttcctgca 480

cccaagttgg tcaacctggg ctttgccacc cttcgggagc acgtccccaa cggcgcggcc 540

aacaagaag atg agt aag gtg gag aca ctg cgc tcg gcg gtc gag tac atc 591
Met Ser Lys Val Glu Thr Leu Arg Ser Ala Val Glu Tyr Ile
1 5 10

cgc gcg ctg cag cag ctg ctg gac gag cat gac gcg gtg agc gcc gcc 639
Arg Ala Leu Gln Gln Leu Leu Asp Glu His Asp Ala Val Ser Ala Ala
15 20 25 30

ttc cag gca ggc gtc ctg tcg ccc acc atc tcc ccc aac tac tcc aac 687
Phe Gln Ala Gly Val Leu Ser Pro Thr Ile Ser Pro Asn Tyr Ser Asn
35 40 45

gac ttg aac tcc atg gcc ggc tcg ccg gtc tca tcc tac tcg tcg gac 735
Asp Leu Asn Ser Met Ala Gly Ser Pro Val Ser Ser Tyr Ser Ser Asp
50 55 60

gag ggc tct tac gac ccg ctc agc ccc gag gag cag gag ctt ctc gac 783
Glu Gly Ser Tyr Asp Pro Leu Ser Pro Glu Glu Gln Glu Leu Leu Asp
65 70 75

ttc acc aac tgg ttctgagggg ctcggcctgg tcaggccctg gtgcgaatgg 835
Phe Thr Asn Trp
80

actttggaag cagggtgatc gcacaacctg catctttagt gctttcttgt cagtggcgtt 895

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<220>
<223> A peptide encoded by a variant of a human SACH gene

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Leu Gln Gln Leu Leu Asp Glu His Asp Ala Val Ser Ala Ala Phe Gln
20 25 30

Ala Gly Val Leu Ser Pro Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu
35 40 45

Asn Ser Met Ala Gly Ser Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly
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Ser Tyr Asp Pro Leu Ser Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr
65 70 75 80

Asn Trp

<210> 5
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<220>
<223> A variant of a human SACH gene

<220>
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agccacggct ggagagaccg agacccggcg caagagagcg cagccttagt aggagaggaa 180

cgcgagacgc ggcagagcgc gttcagcact gacttttgct gctgcttctg ctttttttt 240

tcttagaaac aagaaggcgc cagcggcagc ctcacacgcg agcgccacgc gaggctcccg 300

aagccaaccc gcgaagggag gaggggaggg aggaggaggc ggcgtgcagg gaggagaaaa 360

agcattttca ctttttttgc tcccactcta agaagtctcc cggggatttt gtatatattt 420

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Ser Gly Gly Ala Gly Gln Gln Pro Gln Pro Gln Pro Gln Gln Pro Phe
10 15 20

ctg ccg ccc gca gcc tgt ttc ttt gcc acg gcc gca gcc gcg gcg gcc 688
Leu Pro Pro Ala Ala Cys Phe Phe Ala Thr Ala Ala Ala Ala Ala Ala
25 30 35 40

gca gcc gcc gca gcg gca gcg cag agc gcg cag cag cag cag cag cag 736
Ala Ala Ala Ala Ala Ala Ala Gln Ser Ala Gln Gln Gln Gln Gln Gln
45 50 55

cag cag cag cag cag cag gcg ccg cag ctg aga ccg gcg gcc gac ggc 784
Gln Gln Gln Gln Gln Gln Ala Pro Gln Leu Arg Pro Ala Ala Asp Gly
60 65 70

cag ccc tca ggg ggc ggt cac aagtcagcgc ccaagcaagt caagcgacag 835
Gln Pro Ser Gly Gly Gly His

75

cgctcgtctt cgcccgaact gatgcgctgc aaacgccggc tcaacttcag cggctttggc 895

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<210> 6
<211> 79
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<220>
<223> A peptide encoded by a variant of a human SACH gene

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Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
35 40 45

Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro
50 55 60

Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His
65 70 75